

# May 2016

PERFORMANCE MEASURES

**Statewide Transportation Operations Center** 





The Statewide Transportation Operations Center (STOC) operates 24 hours a day, seven (7) days a week to monitor and manage traffic along the roadway system throughout five (5) MDOT regions. STOC operators utilize closed-circuit television cameras (CCTVs), dynamic message signs (DMS) and various other communication resources in order to receive and disseminate real-time traffic conditions to the motoring public.



#### <u>Summary of Terminology</u>

Communication – Any phone call, e-mail or radio transmission that comes into or goes out of the control room.

CRO - Control Room Operator

**Event** – A task in which a CRO is involved. Multiple categories of events exist (e.g., incident, construction, weather, or special event).

FCP - Freeway Courtesy Patrol

**FCP Assist** – Service provided to the motoring public for various incidents. Includes tire change, mechanical assist, provide gas, move debris, and traffic policing.

**High-Impact Incident** – Any incident that closes more than fifty percent of the freeway, closes both directions of an arterial, closes a freeway-to-freeway ramp, or a closure of less than fifty percent of the freeway/roadway but is also causing a significant delay.

*Incident* – An unplanned event that impacts the shoulder, lane(s) or a ramp of a state of Michigan trunkline (e.g., crash, vehicle fire, debris, or police situation).

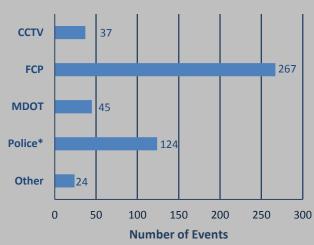
*Unique Message* – Any message posted to the dynamic messages signs (DMS) that relate to an incident, construction, special event, weather condition or an AMBER alert.

#### **Events by Type**



\*Other includes police situations, damage to MDOT property, maintenance, weather, AMBER Alerts, fire, special events, and other traffic impediments.

# **Incidents by Detection Source**



Of the **497** incidents in May 2016, **54%** were detected by Freeway Courtesy Patrol. \*Includes notification from dispatch, Nixles, and Bay Alerts.

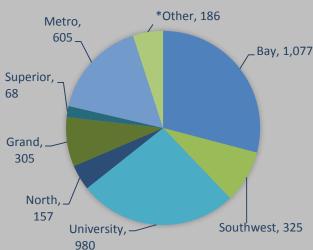
#### **Construction Events**



STOC CROs monitored and managed **38** construction events in May 2016.

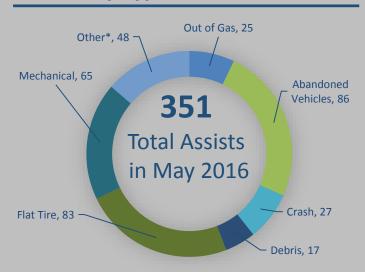
Note: CROs can manage multiple construction events, such as intermittent lane shifts and configuration changes, for each construction project managed by the TSCs.

# **Communications by Region**



CROs managed **3,703** notifications (phone calls, e-mails, radio transmissions) in May 2016, with the largest percentage of all communications, 29% (1,077) between the control room and **Bay Region**.

#### **Assists by Type**



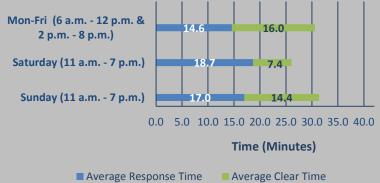
\*Other includes motorist sleeping, checking map, using cell phone, or medical emergency.

# **Dispatched vs. Found on Patrol**



Of the 351 assists in May 2016, **77%** (270) were found while FCP drivers patrolled their routes.

# **Average Assist Times**



The response and clear times for all FCP assists are logged by CROs. These numbers represent the average response and clear times for all drivers during the time periods shown.

STOC has two FCP drivers working on two routes: one driver working in the Brighton area of I-96 and US-23 and the other driver working in the Ann Arbor area of I-94, US-23 and M-14.

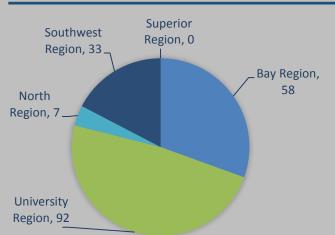
### **FCP Assists by Freeway**

Freeway	Miles Patrolled	Total Assists	Assist Density (assists per mile)	Avg. Response Time (minutes)	Avg. Clear Time (minutes)
US-23	26.5	155	5.8	13.8	16.1
I-94	18	121	6.7	17.6	15.1
I-96	11	40	3.6	9.7	14.7
M-14	15.5	35	2.3	19.9	9.4
Totals/Averages	71	351	4.9	15.2	15.3

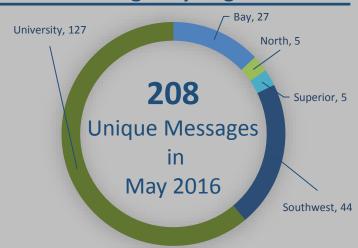
FCP provided the most assistance along US-23 this month (155 assists). I-94 experienced the highest assists per mile (6.7 assists per mile).

#### **Stuck in Traffic Notifications**

#### **DMS Messages by Region**

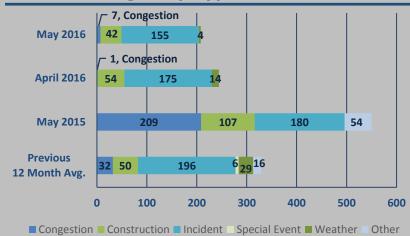


Stuck in traffic notifications are sent to the Control Room via motorists using the Mi Drive mobile website or Mi Drive Application.



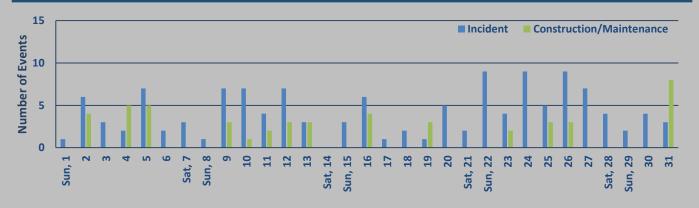
Of the **208** unique messages in May 2016, 61% of them were posted in the **University Region**.

# **DMS Messages by Type**



Once a CRO receives notification and confirmation from stakeholders regarding a specific event, a message specific to the event location and event type will be sent to appropriate dynamic message signs (DMS).

# **STOC Events Displayed on the Mi Drive Website**

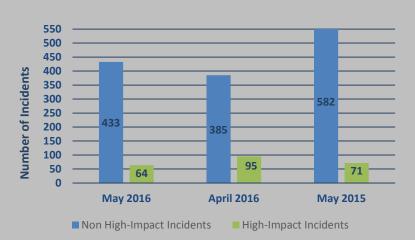


#### **Incidents by Freeway**

		May 2016			April 2016			May 2015		
Freeway	Miles	Total Incidents	Incidents per Mile	Average Duration	Total Incidents	Incidents per Mile	Average Duration	Total Incidents	Incidents per Mile	Average Duration
I-475	17	0	0.00	0.0	1	0.06	54.0	0	0.00	0.0
I-496	12	11	0.92	71.5	2	0.17	41.5	1	0.08	87.0
I-675	7	0	0.00	0.0	2	0.29	113.0	0	0.00	0.0
I-69	178	11	0.06	89.9	10	0.06	106.9	4	0.02	220.3
I-75 *	288	26	0.09	95.6	12	0.04	148.8	15	0.05	70.0
I-94 *	187	144	0.77	32.0	157	0.84	31.0	154	0.82	72.7
I-96 *	76	44	0.58	59.4	64	0.84	14.8	95	1.25	22.0
M-14 *	23	35	1.52	15.9	39	1.70	16.0	100	4.35	19.9
US-127	165	19	0.12	21.5	11	0.07	33.8	16	0.10	42.9
US-131 *	91	2	0.02	294.00	7	0.08	62.4	6	0.07	57.3
US-23	93	158	1.70	20.7	132	1.42	19.2	227	2.44	21.5
US-31 *	85	0	0.00	0.00	1	0.01	289.0	1	0.01	240.0
Total/Averages	1,222	450	0.37	54.0	438	0.36	30.3	619	0.51	37.8

<sup>\*</sup>These figures are discounted and do no include incidents on stretches of freeway managed by WMTOC, SEMTOC or BWBTOC.

#### **Total Incidents**



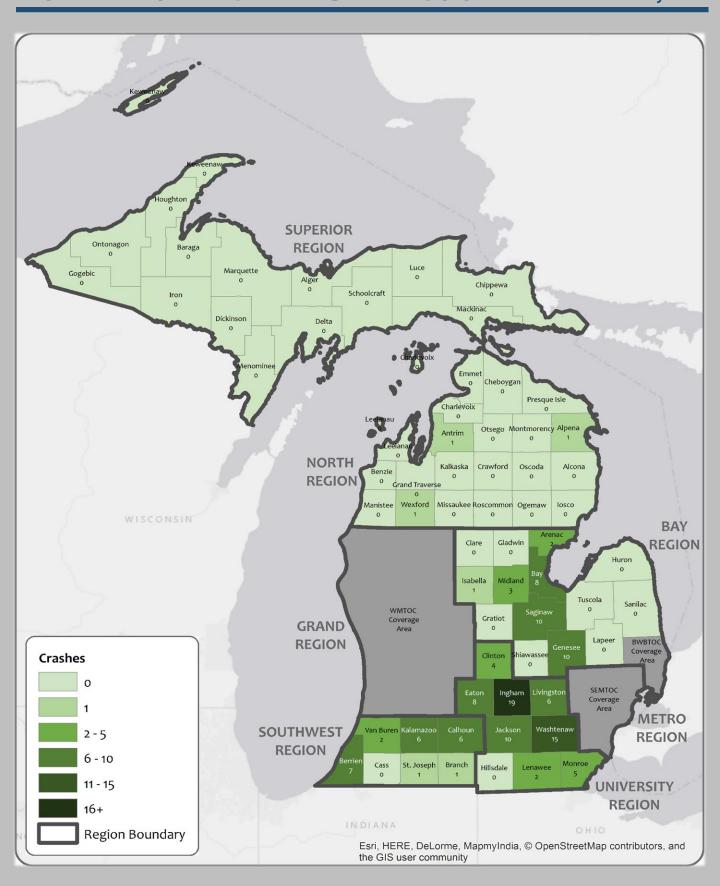
There were a total of **497 Incidents** in the month of May, **13 percent** of these were classified as high-impact.

A high-impact **Incident** is one that closes more than fifty percent of the freeway, closes both directions of an arterial, closes a freeway-to-freeway ramp, or closes less than fifty percent of the freeway/roadway but is also causing a significant delay.

# **Longest Duration Incidents**

Location	County	Day	Duration	Details	
SB BR US-131 at Douglas Avenue	Kalamazoo	Monday, May 23	1,560 Minutes	Emergency Utility Work	
SB US-131 after M-42 at Mile Marker 186	Wexford	Monday, May 2	511 Minutes	Jack Knifed Semi	
NBI-69 at Jonesville Road	Branch	Thursday, May 5	446 Minutes	Semi Fire	
NB & SB US-223 at Grosvenor Highway	Lenawee	Monday, May 2	397 Minutes	Downed Power Lines	
WB I-96 at Grand River Road	Livingston	Friday, May 27	352 Minutes	Semi Fire	

The top duration **Incident** this month occurred along **SB BR US-131** and lasted **1,560** minutes, compared to the average duration of **52.5** minutes (average of all STOC managed events).



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